

# LAARS PLATE

INDIRECT FIRED, SEMI-INSTANTANEOUS PLATE & FRAME WATER HEATER

## The Laars Plate Advantage

**High Efficiency:** High heat transfer, water-to-water, plate and frame heat exchanger designed specifically to satisfy commercial potable water heating needs.

**Unmatched Temperature Control:** Advanced PID control, with feed forward real-time load tracking, quickly responds to variable load patterns to maintain accurate hot water temperatures.

**High Domestic Water Output:** Efficiently produces up to 150 GPM of domestic hot water when coupled with a boiler.

**Flexibility:** Controls are user configurable, two-way operation available when used with VFD pumps, and an optional communications gateway is available for additional communication protocols.

**Small Footprint:** Compact design is ideal for use in commercial and institutional environments where space is not available for large storage tanks.

**Building Management Systems:** Controls integration is via Modbus, BACnet or domestic supply water temperature control.

**Wide Application Range:** Ideal for new or retrofit installations, single or multiple units and no tank required.

**Water to water heating applications include:**

- Apartment Complexes
- Prisons/ Correctional Facilities
- Hospitals/ Nursing homes/ Medical Centers
- Hotels/ Entertainment Facilities
- Schools/ Colleges/ Universities/ Dormitories
- Commercial laundries
- Government & Office buildings



## FEATURES:

- Double Wall Plate and Frame Heat Exchanger
- Advanced electronic PID controls with 4.3" color touchscreen
- Compatible with BMS via BACnet IP or Modbus IP
- Data logging - trending / graphing
- Fault log
- $\pm 4^{\circ}\text{F}$  temp control,  $5^{\circ}\text{F}$  Approach Temperature
- Fully modulating electronic 3-Way control valve
- Stainless steel and copper alloy construction
- Fully packaged for quick and easy installation
- Control Panel can be rotated  $180^{\circ}$  for easy readability
- Compact Footprint
- Certifications: ANSI/AHRI 400, ASME

COMMERCIAL DOMESTIC WATER HEATING

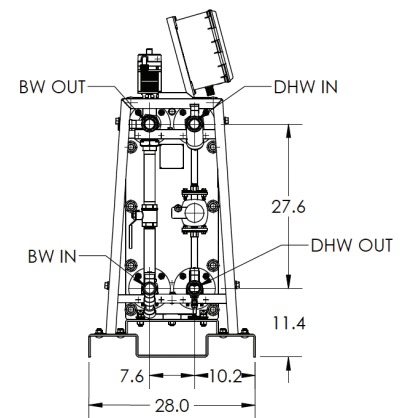
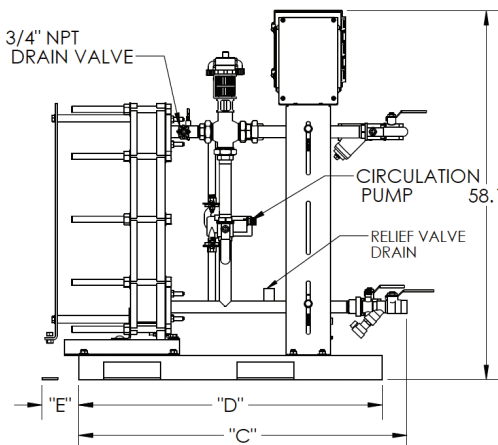
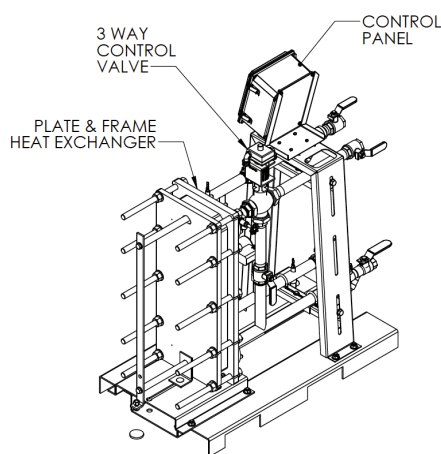
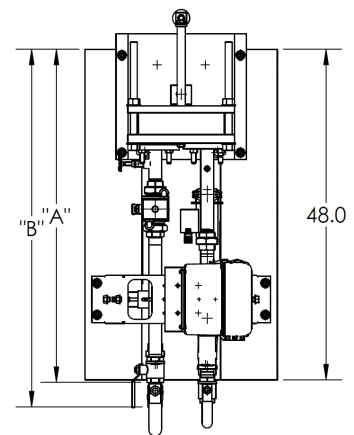
**LAARS**<sup>®</sup>  
Heating Systems Company

## Specifications

Model Number	LP-18D	LP-26D	LP-36D	LP-52D	LP-80D
Electrical Requirements	120VAC/1/60 Hz 2 Amp				
Standby Amperage Draw	2 Amp				
Full Load Amperage Draw	2 Amp				
Domestic Water Pressure Drop	Under 8 PSIG @ max. rated flow				
Max. Continuous Water Flow	90GPM				
Ambient Temperature	32-110°F				
Max. Boiler Water Pressure & Temperature	150 PSIG @ 220°F				
Max. Domestic Water Operating Pressure	150 PSIG				
Adjustable Temperature Control Set Point	Up to 180°F				
Accuracy	+/-4°F				
Water Inlets/Outlet Connection Sizes	1 1/2" FNPT			2.0" FNPT	
Estimated Weight, Shipping	934 lbs	963 lbs	1024 lbs	1082 lbs	1315 lbs
Standard Listing & Approvals	ANSI / AHRI 400, ASME				

## Dimensions:

Model	"A" inches	"B" inches	"C" inches	"D" inches	"E" inches	Water Connections (NPT)
LP-18D	47.5	51.8	51.5	47.8	5.8	1 1/2"
LP-26D	47.5	51.8	51.5	47.8	5.8	1 1/2"
LP-36D	48.6	52.5	52.8	48.4	5.8	2"
LP-52D	48.6	52.5	52.8	48.4	5.8	2"
LP-80D	48.6	52.5	52.8	48.4	13.6	2"



**LAARS**   
**Heating Systems Company**  
 A subsidiary of **BRADFORD WHITE** Corporation

**Customer Service and Product Support:** 800.900.9276 • Fax 800.559.1583

**Headquarters:** 20 Industrial Way, Rochester, NH 03867 • 603.335.6300 • Fax 603.335.3355  
 9 Brigden Gate, Halton Hills, Ontario, Canada, L7G 0A3 • 905.203.0600 • Fax 905.636.0666

[www.LAARS.com](http://www.LAARS.com)